

Texas Brine Company, LLC Daily Update – 4/11/13

Fifth Amendment to the Declaration of Emergency and Directive dated 12/7/12 and Amended Fifth Amendment issued on 1/14/13

Per the requirement in the Fifth Amendment, the daily update on progress in implementing all Directives is provided below:

1. Directive 1:
 - a. The temporary geophone installed on 12/14/12 continues to work and generate data which is being reported as required. The work plan required by the Directive was submitted on 12/15/12 with additional information being provided on 12/19/12 in response to DNR's follow up question.
 - b. The vibro-seismic study at the TBC facility with U. of Houston's mini-vibe unit area seismic activity has been completed; The U. of Texas' "T-Rex" vibe truck work is also completed; the temporary geophone array was reinstalled in the 480' geophone well on 1/19/13.
 - c. A permanent geophone plan was submitted to DNR by MEQ on 1/4/13. DNR has approved the permanent geophone array design and it was installed on 2/13/13 and is functioning well as it reports data to the data collection system provided by Nanometrics; A website is under design and commissioning that will allow future access to all passive seismic system information in a more comprehensive and efficient manner.
2. Directive 2a-e (Amended Fifth Amendment): Given DNR's issuance of an amended Fifth Amendment on 1/14/13, the requirements of this Directive have changed. TBC has work underway to address the requirements of Directive 2 a-e.
 - a. 3D seismic work continues. Survey and drilling work began 02/08/13 and is 100% (Survey) and 100% (Drilling) completed to date; Geophone layout began 3/13/2013 and 2651 stations were laid out. Progress is on schedule with data acquisition having begun 3/17/13 and is 100% complete as of 3/24/13. The data has been harvested and is being processed with data acquisition looking good.
 - b. OG 1 hanging strings were removed on 1/12/13 & 1/13/13; A cement bond log (CBL) and variable density log (VDL) were completed on 1/15/13; The design of the temporary geophone has been approved by DNR, Shaw, and Itasca and was installed on 2/13/13; The permanent geophone design is underway; The pack-off gland for the cable to the geophone array has a slight seep at the wellhead that ESG is working to resolve; The temporary geophone array in OG 1 was removed this past week and a 4-1/2" hanging tubing installed; Continuous pressure monitoring was resumed on 3/30/13 and cavern pressure has shown a steady increase (as expected) since then; TBC reps are designing a long term micro-seismic monitoring system for the TBC facility that should satisfy DNR, CB&I and Itasca's requirements..
 - c. Approval of the EUA from Office of Coastal Management (OCM) was received on 1/15/13 to allow work to upgrade and raise the Rig Road as needed for multiple reasons; Construction of the location for G-03 (1000' geophone well) was completed; Conductor casing was installed on 1/31/13; The 13-3/8" casing was cemented in on 2/6/13; Drilling of the well was completed to a depth of 1100 feet on 2/13/13; The 7" casing was installed and cemented in place on 2/14/13 and a CBL was performed on 2/20, a PDK log was performed 3/5/13; A proposed work plan for the permanent geophone array was submitted on 2/20/13 for review by DNR, CB&I, and Itasca and was approved

on 2/27/13; Ardaman (a Tt company) continues to work on core sample analysis from this well; The permanent geophone array is expected to be installed within the next 3-4 weeks . Installation of the geophone array in Geophone #3 began 04/08/2013, the first sensor has been placed 50' off the floor and sanded in. Work will continue to install the remaining two sensors.

- d. Modifications to the pressure monitoring systems for OG 1, OG 2, OT 9, and OT 10 brine wells have been made and cavern pressures were reported to DNR and AP OEP starting 1/15/13 and will continue.
- e. OG 2-VSP was completed on 1/14/13 and is being analyzed; The sonar survey was conducted on this well on 1/10/13; A CBL was done on this well on 1/15/13; The work-over on this well has been completed; OCC and DNR agreed to return the well to service which was done on 1/25/13.

3. Directive 3:

- a. TBC and its consultant submitted the work plan for the additional MRAA monitor wells on 12/28/12; Comments were received from DNR on 1/5/13 and are being reviewed. A revised work plan was submitted on 1/10/13. DNR responded with comments on Installation of the additional monitor wells on 1/12/13.
- b. Installation of the MRAA 03 D&M wells began on 1/14/13 and for location MRAA 01 D&M wells on 1/16/13; MRAA 03 was plugged on 1/21/13 as a result the changes on OG 3 well pad on 1/18/13 and 1/19/13; An engineering assessment on the stability of the OG 3 well pad was completed; MRAA 01 D&M wells have been installed and are now ready to be developed and sampled; MRAA 02D casing was grouted in and is being developed, MRAA 02M casing and screen was set on 2/27/13, first stage of grout has been set and is now being developed; MRAA 03D was drilled to a depth of 347' on 3/10/13, logged on 3/11/2013, had the screen set 3/12/2013; MRAA 01-03 D&M wells have been developed and sampled.

4. Directive 4:

- a. TBC and consultants submitted a work plan required by this Directive on 12/28/12.
- b. The VSP on OG 3A was completed on 1/12/13; The VSP on OG 1 was completed on 1/16/13; Results from both were analyzed with results were presented to DNR, CB&I, Itasca, and AP OEP officials during the weekly collaborative conference call on 3/5/13. A depth survey was performed on OG 3A on 04/10; Results will be issued as soon as they are finalized; A sonar survey of the remaining cavern was conducted on 04/10/2013 with results pending.

5. Directive 5:

- a. TBC submitted the first daily report on 12/12/12 for OG 1 pressure monitoring as required. These will be submitted daily going forward

6. Directive 6:

- a. TBC submitted the first daily report on 12/12/12 for OG 2 pressure monitoring as required. These will be submitted daily going forward.

7. Directive 7:

- a. The professional engineer's report was submitted 02/06/2013.

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